

DOCKET: CU-5009

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Hideyuki MIYAKE et al.

TITLE: CELL CULTURE PATTERNING SUBSTRATE

THE COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDED ABSTRACT

A ~~main object of the present invention is to provide a cell culture patterning substrate on which cells can be arranged regularly with high efficiency over a large area on a base material so as to attain formation of a tissue, etc.~~ To achieve the above-mentioned object, the present invention provides a The cell culture patterning substrate ~~comprising~~ includes: a base material; and a cell culture region which is formed on the base material, is a region for culturing a cell and contains a cell adhesive layer having adhesive properties to the cell,— wherein the The cell culture region ~~comprises~~ includes: a cell adhesion portion at which the cell adhesive layer is formed; and a cell adhesion auxiliary portion, formed in a pattern, which inhibits adhesion to the cell, and the cell adhesion auxiliary portion is formed such that, upon adhesion of the cell to the cell adhesion portion, the cells on two cell adhesion portions adjacent to the cell adhesion auxiliary portion can be bound to each other on the cell adhesion auxiliary portion.